

1 **Claims**

- 2 1. A selective one-way bit-driving apparatus including a shaft for
3 connection with a handle, a bit receiver including a plurality of teeth
4 formed on an internal face, two one-way drivers pivotally connected
5 with the shaft and each formed with a plurality of teeth for
6 engagement with the teeth of the bit receiver and a switch installed
7 on the shaft for causing the engagement of the teeth of at least one of
8 the one-way drivers with the teeth of the bit receiver.
- 9 2. The selective one-way bit-driving apparatus according to claim 1
10 wherein the shaft includes a plurality of protrusions for holding onto
11 the handle.
- 12 3. The selective one-way bit-driving apparatus according to claim 1
13 wherein the shaft includes two recesses for receiving the one-way
14 drivers.
- 15 4. The selective one-way bit-driving apparatus according to claim 1
16 wherein the one-way drivers each include a cylinder, wherein the
17 shaft includes two longitudinal holes each for receiving the cylinder
18 of corresponding one of the one-way drivers.
- 19 5. The selective one-way bit-driving apparatus according to claim 4
20 wherein the shaft includes two rods each extending from the bottom
21 of corresponding one of the longitudinal holes, wherein the cylinders
22 of the one-way drivers are hollow for receiving corresponding the
23 rods.
- 24 6. The selective one-way bit-driving apparatus according to claim 4
25 wherein the switch is in the form of a ring.
- 26 7. The selective one-way bit-driving apparatus according to claim 6

1 including a restraining device between the cylinder of each of the
2 one-way drivers and the switch.

3 8. The selective one-way bit-driving apparatus according to claim 7
4 wherein the restraining device includes a tab on the cylinder of each
5 of the one-way drivers and two recesses in an internal face of the
6 switch for receiving the tabs.

7 9. The selective one-way bit-driving apparatus according to claim 1
8 including elastic elements each compressed between the shaft and
9 corresponding one of the one-way drivers.

10 10. The selective one-way bit-driving apparatus according to claim 1
11 including elastic elements each compressed between the shaft and
12 corresponding one of the one-way drivers.

13 11. The selective one-way bit-driving apparatus according to claim 10
14 wherein the shaft includes two recesses for receiving the elastic
15 elements.

16 12. The selective one-way bit-driving apparatus according to claim 11
17 wherein the elastic elements are helical springs.

18 13. The selective one-way bit-driving apparatus according to claim 11
19 wherein the elastic elements are leaf springs.

20 14. The selective one-way bit-driving apparatus according to claim 1
21 wherein the switch is in the form of a ring.

22 15. The selective one-way bit-driving apparatus according to claim 14
23 including a positioning device between the shaft and the switch.

24 16. The selective one-way bit-driving apparatus according to claim 15
25 wherein the positioning device includes a spring-biased detent on the
26 shaft and a plurality of recesses in an internal face of the switch for

1 receiving the spring-biased detent.

2 17. The selective one-way bit-driving apparatus according to claim 14
3 including a restraining device between the shaft and the switch.

4 18. The selective one-way bit-driving apparatus according to claim 17
5 wherein the restraining device includes a restraint on the shaft and a
6 groove in an internal face of the switch for receiving the restraint.

7 19. The selective one-way bit-driving apparatus according to claim 1
8 including a fastener for holding the shaft and the bit receiver
9 together.

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